DATE: March 12, 1980

SUBJECT: EPA Reg.#2724-274; Methomyl and Muscamone
CASWELL#549C & 883C

003779

WRD 3/12/80 WSW

FROM: William Dykstra
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TO: Charles Mitchell
Product Manager#12
Registration Division (TS-767)

Action Requested: Review Rat Teratology Study

Recommendations:

1. The teratology study is acceptable as core minimum data and supports the registration. Z-9 tricosene technical was not teratogenic or embryotoxic at 5 gm/kg when administered during days 6-15 in the rat.

Review:

1. Teratology Study in Rats with Z-9 Tricosene Technical (Final Report, LBI Project No. 20876, March, 1978).

Test Material: Z-9 tricosene technical #046113 (16D) 63.1% A.I.

Male and Female [CRL:COBS CD (SD) BR] rats were used in the experiment. The test material was administered to 20 mated female rats at a dose level of 5 gm/kg during days 6 through 15 of gestation. The control rats received the corn oil vehicle. Body weight and food consumption was measured during the gestation period. On day 20 of gestation, the adult female rats were anesthetized with chloroform and the visceral and thoracic organs examined. The uterus was removed and opened. The number of implantation sites and their placement in the uterine horns, live and dead fetuses, and resorption sites were recorded.

The fetuses were removed, examined externally for abnormalities and weighed.

One-third of the fetuses of each litter were fixed in Bouin's fluid and examined for soft tissue changes. The remaining fetuses of each litter were examined for skeletal abnormalities following staining with Alizarin Red S.

Statistical evaluation of the data was carried out.

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Results: The treatment produced no effect among adult females. There was no evidence of compound induced terata, variation in sex ratio, embryotoxicity or inhibition of fetal growth and development.

Conclusion: Z-9 tricosene technical was not teratogenic or embryotoxic at 5 gm/kg when administered during days 6-15 in the rat.

Classification: Core-Minimum Data

TOX/HED:th:Initial WWOODROW:3-12-80

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END